[redacted]

31 July 1964
GN:bb:366
(997-112)

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TRIP REPORT

[redacted]

STATINTL Purpose: To Evaluate [redacted] Microdensitometers

STATINTL Persons
STATINTL Contacted: [redacted]

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STATINTL During the day of 23 July, a series of tests[1] were conducted on a [redacted] Model III Microdensitometer. The instrument was operated by [redacted]

STATINTL [redacted] indicated that [redacted] entered the field of microdensitometry in 1956 with the intention of making an instrument for in-house purposes. The Model III is a modified version of the original instrument.

The instrument has a scanning capability in only one direction. A Leitz stage is used to obtain sample rotation. The stage design is such that continuous scanning is limited to one inch in the x direction. Upon removal of the Leitz stage an eight inch scan can be accomplished, but rotation is not possible. The mensuration accuracy, as stated by [redacted] is ± 15 μ. The basic price for the Model III microdensitometer is [redacted] A digitized system has recently been developed and is available at an additional cost.

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A lower cost instrument, the [redacted] Model V, has been developed for commercial use. The Model V uses Quanta-log electronics, a Leitz stage and

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STATINTL [1] Memorandum by [redacted] MM:bb:282, 22 June 1964.

10 August 1964
GN:bb:366 (997)

STATINTL Leitz optics. The instrument has the same scan limitation as the Model III. Its mensuration accuracy is estimated to be ± 2-1/2 μ. The overall cost is about [redacted] We were informed that the price could be reduced considerably if a number of instruments were purchased.

There are no provisions on either the Model III or the Model V for handling roll film. A mirror system is used for viewing when the instrument is not in the scanning operation.

An automatic focusing device has been designed for use with their Model III microdensitometer. At the time of the visit the focusing device was under modification and would not be operational until the first part of August. Tentative arrangements were made for us to return when the system is operational. This will also give us an opportunity to discuss a number of items where information was initially lacking and which [redacted] is currently STATINTL checking.

[redacted] indicated that [redacted] hopes to introduce a microdensi- STATINTL tometer in the near future which would be designed specifically for commercial STATINTL use. He indicated the instrument would consist of a [redacted] Comparator, STATINTL [redacted] electronics and [redacted] optics. The instrument would be assembled at [redacted] and special features would be available.

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Ext. 547